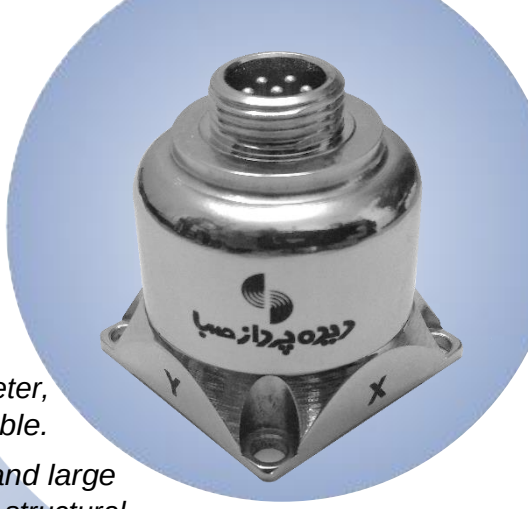
Dide Pardaz Saba

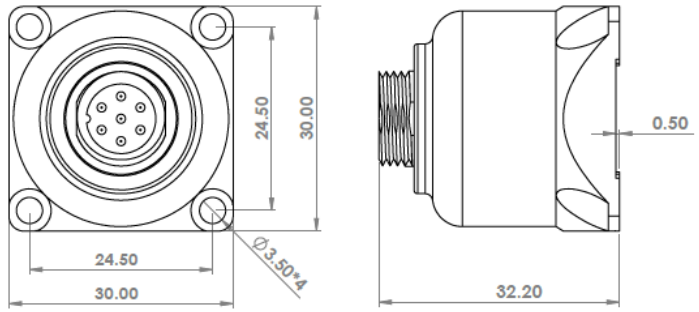
Network Accelerometers



VibNet 354/356 is a network based acceleration transducer with high performance capabilities for both industrial and research applications.

Thanks to low noise and wide temperature tri-axial MEMS accelerometer, accurate vibration measurement over a chained network topology is possible.

Special specifications such as long cable length, high output data rate and large number of nodes, makes it the best choice for synchronous measurement of structural vibrations and Modal/ODS analysis. Since, it has an open source and free NI LabVIEW software, users can develop their own application software or export signals in standard vibration data formats.



Pin Assignment

1: GND
2: D +
3: D −
4: Do Not Connect
5: Do Not Connect
6: Do Not Connect
7: +10 ~ 30 VDC

Specification	Unit		Model	
			VibNet 354	VibNet 356
Measurement Directions	---		X , Y , Z	
Measurement Range	g		± 2/4/8	± 10/20/40
Minimum Frequency	Hz		0	
Maximum Frequency (-3dB)	Hz		100 , 200 , 500 , 1000	
Output Data Rate	Hz		500 , 1000 , 2000 , 4000	
Sensitivity (on lower range)	Counts/g		14563 (±2 g)	2913(±10 g)
ADC Resolution	bits		16	
Noise Density (on lower range)	$\mu g/\sqrt{Hz}$		20	80
Broadband Resolution (RMS Noise, on lower range)	μg	1 ~ 100 Hz	250	1000
		1 ~ 1000 Hz	800	3200
Mounted Resonance Frequency	Hz		> 5000	
Non-Linearity	%		0.1	
Transverse Sensitivity	%		< 5	
Operating Temperature	°C		-40 ~ +85	
Storage Temperature	°C		-50 ~ +100	
Temperature Sensitivity	% / °C		± 0.01	
Output	---		RS485	
Output Protocol	---		DPS-VibNet	
Output Type	---		Raw Data	
Maximum Cable Length	m		100 (Extendable by repeater)	
Maximum No. of nodes	---		16 (Extendable on order)	
Synchronization Error	μsec		< 1	
Power Supply	VDC		10 ~ 30	
Power Consumption	mA @ 24 VDC		15	
Size	mm		30(L) × 30(W) × 33(H)	
Weight	gr		80	
Case Material	---		Stainless Steel	
Case Sealing	---		Epoxy Resin	
Mounting	---		4 × Ø3.5 mm	
IP Rating	---		IP 65	

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